

CHAPTER FIFTEEN

GROUND BASED AIR DEFENSE SUPPLEMENTARY COURSES

LAAD - OFFICER ACADEMIC SUPPORT PACKAGE

Course Objective: To provide the LAAD Officer (7204) with additional ground training as required by MCO P3500.14.

Length: 33 classroom hours

Notes:

1. The Academic Support Package (ASP) is developed by MAWTS-1 and intended for instruction by a WTI or other qualified squadron instructor. The Academic Syllabus shall be integrated into the combat ready (10 hours of academic instruction), combat qualified (18 hours of academic instruction) and fully combat qualified stages of training (5 hours of academic instruction). Classes delineated in paragraph 5 should be conducted annually for all personnel (30 hours of academic instruction).
2. All classes listed below in the academic syllabus are available on either the secret (S) or unclassified (U) versions of the MAWTS-1 ASP

Academic Syllabus:

1. The following syllabus supports the 200-level (Combat Ready) phase of training:
 - a. In direct support of the SYS (LAAD Systems Introduction) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings:
 - (a) MCWP 3-25.10 Low Altitude Air Defense Handbook
 - (b) RTU 7.4 lesson guide
 - (2) Lectures:
 - (a) **Prior to Stage Initiation:**
 1. C-3 Ground Base Data Link C3 ASP
 2. GBAD Tactical Defense Alert Radar GBAD ASP
 3. GBAD IFF Programming GBAD ASP
 - (3) Chalk Talks: N/A

- b. In direct support of the OPS (Operations) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

(a) MCWP 3-25.10 Low Altitude Air Defense Handbook

(2) Lectures: N/A

(3) Chalk Talks: N/A

- c. In direct support of the QUAL (Qualification) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

- d. In general support of the Combat Ready Phase, the following academic syllabus should be completed:

(1) Lectures:

(a) MAWTS-1 Rules of Engagement

GENERIC CLASSIFIED ASP

(b) MAWTS-1 6 Functions of Marine Aviation

WTI READ AHEAD

(c) C-3 MACCS Communications

C3 ASP

2. The following syllabus supports the 300-level (Combat Qualified) phase of training:

- a. In direct support of the OPS (Operations) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures:

(a) **Prior to Stage Initiation:**

1. GBAD 5 Paragraph Order GBAD ASP

(3) Chalk Talks: N/A

- b. In general support of the SAW (Surface to Air Weapons) Phase, the following academic syllabus should be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

- c. In general support of the QUAL (Qualification) Phase, the following academic syllabus should be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

- d. In general support of the Combat Qualification Phase, the following academic syllabus should be completed:

(1) Self-Paced Readings: N/A

(2) Lectures:

(a) Prior to Stage Completion:

- | | |
|--|------------------------|
| 1. MAWTS-1 Missile and UAV Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| 2. MAWTS-1 Fixed Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| 3. MAWTS-1 Rotary Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| 4. MAWTS-1 REC Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| 5. MAWTS-1 Ground Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| 6. C3 UAV Operational Principles & Employment | C3 ASP |
| 7. C3 MUX Communications | C3 ASP |
| 8. C3 MACCS Information flow | C3 ASP |
| 9. C3 EDATF | C3 ASP |
| 10. C3 MAGTF GBAD | C3 ASP |

3. The following syllabus supports the 400-level (Full Combat Qualified) phase of training:

a. In direct support of the SYS (System) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

b. In direct support of the OPS (Operations) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

c. In direct support of the QUAL (Qualification) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures:

(a) **Prior to Stage Completion:**

1. MAWTS-1 Joint Air Operations
2. C3 Air Defense Weapon System Management

GENERIC ASP
C3 ASP

(3) Chalk Talks: N/A

LAAD - ENLISTED ACADEMIC SUPPORT PACKAGE

SECTION LEADER / PLATOON SERGEANT / OPERATIONS CHIEF

Course Objective: To provide the LAAD Marine (7212) with additional ground training as required by MCO P3500.14.

Length: 37 classroom hours

Notes:

3. The Academic Support Package (ASP) is developed by MAWTS-1 and intended for be instruction by a WTI or other qualified squadron instructor. The Academic Syllabus shall be integrated into the combat ready (15hours of academic instruction), combat qualified (18 hours of academic instruction) and fully combat qualified stages of training (4 hours of academic instruction). Classes delineated in paragraph 5 should be conducted annually for all personnel (35 hours of academic instruction).
4. All classes listed below in the academic syllabus are available on either the secret (S) or unclassified (U) versions of the MAWTS-1 ASP

Academic Syllabus:

4. The following syllabus supports the 200-level (Combat Ready) phase of training:
 - a. In direct support of the SYS (LAAD Systems Introduction) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings:
 - (a) MCRP 3-25.10A LAAD Gunners Handbook
 - (2) Lectures:
 - (a) **Prior to Stage Initiation:**
 1. GBAD Tactical Defense Alert Radar GBAD ASP
 2. GBAD IFF Programming GBAD ASP
 - (3) Chalk Talks: N/A
 - b. In direct support of the OPS (Operations) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings:

- (a) MCRP 3-25.10A LAAD Gunners Handbook
- (b) 7.4 Lesson Guide

(2) Lectures:

(a) **Prior to Stage Initiation:**

- | | |
|-----------------------------------|----------|
| 1. C3 Ground Based Data link | C3 ASP |
| 2. GBAD Global Positioning System | GBAD ASP |
| 3. GBAD LAAD Employment | GBAD ASP |
| 4. GBAD LAAD Command and Control | GBAD ASP |

(3) Chalk Talks: N/A

- c. In direct support of the QUAL (Qualification) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

- d. In general support of the Combat Ready Phase, the following academic syllabus should be completed:

(1) Lectures:

- | | |
|--|------------------------|
| (a) MAWTS-1 Rules of Engagement | GENERIC CLASSIFIED ASP |
| (b) MAWTS-1 6 Functions of Marine Aviation | WTI READ AHEAD |
| (c) C3 MACCS Communications | C3 ASP |
| (d) C3 SINCGARS | C3 ASP |

5. The following syllabus supports the 300-level (Combat Qualified) phase of training:

- a. In direct support of the OPS (Operations) Stage, the following academic syllabus shall be completed:

(1) Self-Paced Readings: N/A

(2) Lectures:

(a) **Prior to Stage Initiation:**

- | | |
|---------------------------|----------|
| 1. C3 Base Defense Zone | C3 ASP |
| 2. GBAD MAACS Agencies | GBAD ASP |
| 3. GBAD 5 Paragraph Order | GBAD ASP |

(3) Chalk Talks: N/A

- b. In general support of the SAW (Surface to Air Weapons) Phase, the following academic syllabus should be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

- c. In general support of the QUAL (Qualification) Phase, the following academic syllabus should be completed:

(1) Self-Paced Readings: N/A

(2) Lectures: N/A

(3) Chalk Talks: N/A

- d. In general support of the Combat Qualification Phase, the following academic syllabus should be completed:

(1) Lectures:

- | | |
|---|------------------------|
| (a) MAWTS-1 Missile and UAV Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (b) MAWTS-1 Fixed Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (c) MAWTS-1 Rotary Wing Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (d) MAWTS-1 REC Threat | GENERIC CLASSIFIED ASP |
| (e) MAWTS-1 Ground Threat to the MAGTF | GENERIC CLASSIFIED ASP |
| (f) C3 UAV Operational Principles & Employment | C3 ASP |
| (g) C3 MUX Communications | C3 ASP |
| (h) C3 MACCS Information flow | C3 ASP |

- (i) C3 EDATF
- (j) C3 MAGTF GBAD

C3 ASP
C3 ASP

6. The following syllabus supports the 400-level (Full Combat Qualified) phase of training:
 - a. In direct support of the SYS (System) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings: N/A
 - (2) Lectures: N/A
 - (3) Chalk Talks: N/A
 - b. In direct support of the OPS (Operations) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings: N/A
 - (2) Lectures: N/A
 - (3) Chalk Talks: N/A
 - c. In direct support of the QUAL (Qualification) Stage, the following academic syllabus shall be completed:
 - (1) Self-Paced Readings: N/A
 - (2) Lectures: N/A
 - (3) Chalk Talks: N/A

LAAD - OFFICER TRAINING SYLLABUS

EVENT	DATE	INSTRUCTOR
COMBAT READY STAGE		
LAAD SYSTEM FAMILIARIZATION		
GROUND BASED DATA LINK		
TACTICAL DEFENSE ALERT		
IFF PROGRAMMING		
SYS 240		
SYS 241		
SYS 242		
SYS 243		
SYS 244		
SYS-245		
SYS-246		
SYS 247		
LAAD OPERATIONS FAMILIARIZATION		
OPS-250		
OPS-251		
OPS-252		
OPS-253		
OPS-254		
OPS-255		
OPS-256		
OPS-257		
OPS-258		
LAAD QUALIFICATIONS FAMILIARIZATION		
QUAL 280		
GENERAL SUPPORT ACADEMICS		
RULES OF ENGAGEMENT		
6 FUNCTIONS OF MARINE		
MACCS COMMUNICATIONS		
COMBAT QUALIFICATION STAGE		
LAAD OPERATIONS FAMILIARIZATION		
GBAD 5 PARAGRAPH ORDER		
OPS-350		
OPS-351		
LAAD SAW FAMILIARIZATION		
SAW-361		
LAAD QUALIFICATIONS FAMILIARIZATION		
QUAL-380		
QUAL-381		
GENERAL SUPPORT ACADEMICS		
MISSILE AND UAV THREAT TO THE MAGTF		
FIXED WING THREAT TO THE		
ROTARY WING THREAT TO THE		
REC THREAT TO THE MAGTF		
GROUND THREAT TO THE		
UAV OPERATIONAL PRINCIPLES		
MUX COMMUNICATIONS		
MACCS INFORMATION FLOW		
EDATF		
MAGTF GBAD		

EVENT	DATE	INSTRUCTOR
FULL COMBAT QUALIFICATION		
LAAD SYSTEM FAMILIARIZATION		
SYS-440		
LAAD OPERATIONS FAMILIARIZATION		
OPS-450		
OPS-451		
LAAD QUALIFICATION FAMILIARIZATION		
QUAL-557		
GENERAL SUPPORT ACADEMICS		
JOINT AIR OPERATIONS		
AIR DEFENSE WEAPON SYSTEM MGMT		

NAME: _____

SSN: _____

LAAD - ENLISTED TRAINING SYLLABUS

EVENT	DATE	INSTRUCTOR
COMBAT READY STAGE		
LAAD SYSTEM FAMILIARIZATION		
TACTICAL DEFENSE ALERT		
IFF PROGRAMMING		
SYS 220		
SYS 221		
SYS 223		
SYS 224		
SYS 225		
SYS 226		
LAAD OPERATIONS FAMILIARIZATION		
GROUND BASED DATA LINK		
GLOBAL POSITIONING SYSTEM		
LAAD EMPLOYMENT		
LAAD COMMAND AND CONTROL		
OPS-227		
OPS-230		
OPS-231		
OPS-232		
OPS-233		
OPS-234		
LAAD QUALIFICATIONS FAMILIARIZATION		
QUAL 280		
GENERAL SUPPORT ACADEMICS		
RULES OF ENGAGEMENT		
6 FUNCTIONS OF MARINE		
MACCS COMMUNICATIONS		
SINGARS		
COMBAT QUALIFICATION STAGE		
LAAD OPERATIONS FAMILIARIZATION		
BASE DEFENSE ZONE		
MACCS AGENCIES		
GBAD 5 PARAGRAPH ORDER		
OPS-320		
OPS-321		
OPS-322		
OPS-323		
LAAD SAW FAMILIARIZATION		
SAW-360		
LAAD QUALIFICATIONS FAMILIARIZATION		
QUAL-330		
QUAL-331		
GENERAL SUPPORT ACADEMICS		
MISSILE AND UAV THREAT TO THE MAGTF		
FIXED WING THREAT TO THE		
ROTARY WING THREAT TO THE		
REC THREAT		
GROUND THREAT TO THE		
UAV OPERATIONAL PRINCIPLES		
MUX COMMUNICATIONS		
MACCS INFORMATION FLOW		
EDATF		
MAGTF GBAD		

EVENT	DATE	INSTRUCTOR
FULL COMBAT QUALIFICATION		
LAAD SYSTEM FAMILIARIZATION		
SYS-420		
SYS-421		
LAAD OPERATIONS FAMILIARIZATION		
MAWTS-1 TRAINING		
OPS-430		
OPS-431		
OPS-432		
LAAD QUALIFICATIONS FAMILIARIZATION		
QUAL-440		
QUAL-510		

NAME: _____

SSN: _____
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